Claim Amendments

Please amend the claims as follows:

1. (Currently Amended) A data managing method for a removable storage device having a replaceable memory chips ~~chip~~, said replaceable memory chips including used memory chips and/or unused memory chips, the used memory chips being chips having a file management system and ready to be used in the removable storage device, the unused memory chips being chips that have not been initialized or partitioned, characterized in that ~~the~~ said method comprises the steps of ~~comprising~~:

    1) determining whether the replaceable memory chips: ~~the use condition of said memory chip, and applying or organizing or establishing or re-establishing a file managing system for the storage medium of said removable storage device~~

        a) are used memory chips; or

        b) are unused memory chips; or

        c) include both used and unused memory chips ~~and~~

    2) a controller of the removable storage device reading an amount of the replaceable memory chips installed in the removable storage device, and obtaining information of storage capacity of each of said replaceable memory chips;

    3) applying or organizing or establishing or re-establishing a file managing system for the replaceable memory chips of said removable storage device based upon the file management system of the replaceable memory chips; and

    4) utilizing said file managing system to perform corresponding processing in said replaceable memory ~~chip~~ chips according to an operation instruction from a host system connected to said removable storage device.

2. (Currently Amended) The data managing method according to claim 1, characterized in that ~~wherein~~ the method ~~step for determining the use condition of said memory chip in step 1)~~ further comprises:

~~reading by a controller of~~ said host system generating one or more disk descriptors for the removable storage device~~, the amount of the memory chips installed~~ according to the information of replaceable memory chips of said ~~in the~~ removable storage device ~~and obtaining information of storage capacity of each said memory chip~~.

3. (Currently Amended) The data managing method according to claim 2, characterized in that the number of the ~~further comprising:~~

~~generating by said host system, one or more~~ disk descriptors of ~~for~~ the removable storage device is equal to the number of the replaceable ~~according to the information of the~~ memory chips installed in the ~~of said~~ removable storage device.

4. (Currently Amended) The data managing method according to claim 2 ~~3~~, characterized in that step 1) of the method further comprises:

~~wherein:~~ dividing the replaceable memory chips of the removable storage device into a plurality of partitions, the number of the disk descriptors of the removable storage device being ~~is~~ equal to the number of the partitions ~~memory chips installed in the removable storage device~~.

5. (Currently Amended) The data managing method according to claim 1 ~~3~~, characterized in that step 1) of the method further comprises:

~~wherein: the memory chip of the removable storage device is divided into a plurality of partitions, the number of the disk descriptors of the removable storage device is equal to the number of the partitions~~

formatting the unused memory chips and establishing the file managing system with respect to unused memory chips; or

in the situation that there are only used memory chips, adopting the original file managing system thereof, or re-combining, modifying

the file managing information and establishing a new file managing system.

6. (Currently Amended) The data managing method according to claim 1, characterized in that the method ~~wherein: the memory chips include used memory chips and/or unused memory chips, the unused memory chips being original chips that have not been initialized or partitioned, and the step 1)~~ further ~~includes~~ comprises:

~~determining whether~~ installing the replaceable memory chips in addition to existing ~~are used~~ memory chips which are fixed and not detachable ~~or unused memory chips, or include used and unused memory chips;~~

~~with respect to the unused memory chip, formatting the chips and establishing the file managing system; and~~

~~if there are only used memory chips then, adopting the original file managing system thereof, or re-combining, modifying the file managing information and establishing new file managing system~~.

7. (Currently Amended) The data managing method according to claim 5 ~~2~~, characterized in that the method further comprises:

~~wherein: the installed~~ determining the used memory chips by reading the logical “0” blocks of the replaceable memory chips;

determining that the replaceable memory chips are used chips if no all logical “0” blocks are logical value “1”, and

determining that the replaceable memory chips are unused chips if all logical “0” blocks are logical value “1” ~~are installed on the basis of the existing removable storage device~~.

8. (Currently Amended) The data managing method according to claim 1 ~~6~~, characterized in that step 1) further comprises:

~~wherein: determining the used memory chips include reading the logical “0” blocks of the memory chips, determining that the memory chips are used chips if no all logical “0” blocks are logical value “1”, and~~

~~determining that the memory chips are unused chips if all logical "0" blocks are logical value "1"~~

applying or organizing or establishing or re-establishing a file managing system including but not limited to: FAT12, VFAT, FAT16, FAT32, CDFS, NTFS, EXT2, EXT3, JFFS, JFS, RAMFS, HPFS, CRAMFS.

9. (Currently Amended) The data managing method according to claim 1, characterized in that performing a corresponding operation in the replaceable memory chips includes the steps of

~~wherein: the types of the file managing system include file managing system supporting Windows and its updated version, or file managing system supporting UNIX or LINUX and their updated version, wherein the file managing system supporting Windows and the updated version includes but is not limited to: FAT12, VFAT, FAT16, FAT32, CDFS, NTFS; the file managing system supporting UNIX or LINUX and their updated version includes but is not limited to: EXT2, EXT3, JFFS, NFS, RAMFS, HPFS, CRAMFS~~

reading a designated address in an operation instruction;

transforming the designated address into a physical address;

comparing the physical address with capacity of the replaceable memory chips;

determining a corresponding memory chip, and

finding a corresponding storage block in the determined memory chip.

10. (Currently Amended) The data managing method according to claim 9 ~~1~~, characterized in that the method further includes: ~~wherein performing corresponding operation in the memory chips includes steps of:~~

~~reading designated address in the operation instruction, and transforming the designated address into physical address; and~~

~~comparing the physical address with capacity of the memory chips, determining the corresponding memory chip, and finding corresponding storage block in the determined memory chip~~

the removable storage device returning error information if the physical address exceeds the storage capacity of all replaceable memory chips of the removable storage device.

11. (Currently Amended) The data managing method according to claim 1 ~~10~~, characterized in that the method further includes:

~~wherein: the removable storage device returns error information if the physical address exceeds the storage capacity of all memory chips of the storage device~~

the host system stopping to supply power to the removable storage device or the controller of the removable storage device when replacing the replaceable memory chips for the removable storage device.

12. (Currently Amended) The data managing method according to any of claims 1-7 ~~claim 1~~, further includes:

~~wherein: the host system removes power to the removable storage device or the controller of the removable storage device when replacing the memory chips for~~ setting a data encryption area in the memory chips, and performing encryption or decryption to the stored data by the controller of the removable storage device.

13. (Cancelled).